Application No. 09/626,566 Filed: July 27, 2000 Group Art Unit: 1651

AMENDMENTS TO THE SPECIFICATION

Please amend the Abstract as follows:

A chemiluminescent substrate of hydrolytic enzyme having the following general Formula I, as follows:

Lumi-M-P

Formula I

where "Lumi" is a chemiluminescent moiety capable of producing light (a) by itself, (b) with MP attached and (c) with M Examples of Lumi includes, but is not limited to, attached. chemiluminescent acridinium compounds (e.g. acridinium esters, acridinium carboxyamides, acridinium thiocaters and acridinium exime esters), benzacridinium compounds, quinolinium compounds, compounds, phenanthridinium compounds, isoguinolinium lucigenin compounds, or the reduced (e.g., acridans) or non-N alkylated forms (e.g., acridines) of the above, spiroacridan compounds, luminol compounds and isoluminol compounds and the M is a multivalent heteroatom having at least one lone pair of electrons selected from oxygen, nitrogen and sulfur, directly attached to the light emitting moiety of Lumi at one end and to P at the other end. - (When M alone is attached to Lumi to form Lumi M, it-does, of course, have either a proton or a-counterion associated with it-or is in the form of an ion.). P is a group that can be readily removed by hydrolytic enzymes, as discussed in more detail hereinafter. The light emitting moiety of Lumi is well known. For example, when Lumi is an

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acridinium compound or luminol, the light emitting moiety is the acridinium nucleus or phthaloyl moiety, respectively.

An enzymatic reaction utilizing the above compound is the following-the following-general reaction A, as follows:

where HE is a hydrolytic enzyme, such as phosphatase, glycosidase, peptidase, protease, esterase, sulfatase and guanidinobenzoatase. Lumi M-P is a chemiluminescent substrate of a hydrolytic enzyme. Lumi-M is a chemiluminescent product having physical and/or chemical properties different from those of Lumi-M-P. Said physical and/or chemical properties include emission wavelength, quantum yield, light emission kinetics, fundamental net charge distribution, dipole moment, m-bond orders, free energy, or apparent hydrophobicity/ hydrophilicity, solubility, affinity and other properties.